

ER DEPARTMENT DATA ASSESSMENT
SUMMARY REPORT FORM

Batch No. 9010C017 Site Surface Water
Laboratory IT - Cerritos No. of Samples/Matrix 6/Water
SOW # 10/86 (Rev. 2/88) Reviewer Org. TechLaw, Inc.
Sample Numbers SW00373WC, SW00449WC, SW00450WC, SW00453WC, SW80058WC, SW80059WC

Data Assessment Summary

	VOA	Comments
1. Holding Times	<u>A</u>	<u>Action Item 1</u>
2. GC/MS Tune/Instr. Perf.	<u>V</u>	
3. Calibrations	<u>X</u>	<u>Comment 1</u>
4. Blanks	<u>X</u>	<u>Comment 2</u>
5. Surrogates	<u>V</u>	
6. Matrix Spike/Dup.	<u>V</u>	
7. Other QC	<u>X</u>	<u>Comment 3</u>
8. Internal Standards	<u>V</u>	
9. Compound Identification	<u>V</u>	
10. System Performance	<u>V</u>	
11. Overall Assessment	<u>A</u>	<u>Data acceptable with qualifications.</u>

V = Data had no problems.

A = Data acceptable but qualified due to problems.

R = Data rejected.

X = Problems, but do not affect data.

Data Quality: Data contained in this batch were reviewed and found to be acceptable with qualifications. Acceptable,
qualified data may be used provided that individual values impacted by the "Action Items" listed below are appropriately flagged.
(Refer to attached Data Summary Tables.)

1
REVIEWED FOR CLASSIFICATION/UCM
By [Signature] A-DU04-000079
Date 10/25/91
010c017v/voa

Action Items: 1) The results for aromatic compounds in samples SW80058WC, SW00450WC, SW80059WC, and SW00449WC are estimated (J) because holding times exceeded seven days.

Comments: 1) The %Ds for several compounds exceeded 25% in the continuing calibrations. No action is taken because there were no positive results for these compounds.

2) Method blank contamination did not lead to qualification because the blank contaminant was not found in the associated samples.

3) Many samples were listed on the Chain-of-Custody for Volatile analysis. These samples were not included in this batch, and there was no indication as to which batch they were submitted with.

Note: Data Summary Tables are attached.

Pamela S. Rogers
Validator Signature

2/5/91
Date

William T. Fen
Reviewer Signature

2/5/91
Date

PROJECT SAMPLE NUMBER	SAMPLE DATE MM/DD/YY	COLLECTION DATE MM/DD/YY	BATCH NUMBER	SAMPLE MATRIX	LAB SAMPLE NUMBER	LAB ID	PREP DATE MM/DD/YY	SAMPLE ANAL DATE MM/DD/YY	BLANK SAMPLE NUMBER	LAB TEST CODE	NS ID	CAS NUMBER	ANALYT RESULT	RESLT IFERR	UNIT OF MEASU	RETEIN TIME	PARAMETER NAME	INSTRU DETECT LIMIT	REASONS 1 2 3 4	QLI UNIT OF MEASU	QLI QUA PERR
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 75-34-3	5	U	U	UGL		1,1-Dichloroethane	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 75-34-4	5	U	U	UGL		1,1-Dichloroethane	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 71-55-6	5	U	U	UGL		1,1,1-Trichloroethane	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 79-00-5	5	U	U	UGL		1,1,2-Trichloroethane	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 79-34-5	5	U	U	UGL		1,1,2,2-Tetrachloroethane	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 107-06-2	5	U	U	UGL		1,2-Dichloroethane	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 540-59-0	5	U	U	UGL		1,2-Dichloroethane (total)	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 78-87-5	5	U	U	UGL		1,2-Dichloropropane	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 78-93-3	10	U	U	UGL		2-Butanone	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 591-78-6	10	U	U	UGL		2-Hexanone	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 108-10-1	10	U	U	UGL		4-Methyl-2-pentanone	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 67-64-1	10	U	U	UGL		Acetone	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 71-43-2	5	U	U	UGL		Benzene	1A 1			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 75-27-4	5	U	U	UGL		Bromodichloromethane	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 75-25-2	5	U	U	UGL		Bromoform	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 74-83-9	10	U	U	UGL		Bromomethane	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 74-15-0	5	U	U	UGL		Carbon Disulfide	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 56-23-5	5	U	U	UGL		Carbon Tetrachloride	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 108-90-7	5	U	U	UGL		Chlorobenzene	1A 1			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 75-00-3	10	U	U	UGL		Chloroethane	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 67-66-3	5	U	U	UGL		Chloroform	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 74-87-3	10	U	U	UGL		Chloromethane	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 10061-01-5	5	U	U	UGL		cis-1,3-Dichloropropene	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 134-48-1	5	U	U	UGL		Dibromochloromethane	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 100-41-4	5	U	U	UGL		Ethyl Benzene	1A 1			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 75-09-2	5	U	U	UGL		Methylene Chloride	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 100-42-5	5	U	U	UGL		Styrene	1A 1			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 127-18-4	5	U	U	UGL		Tetrachloroethene	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 108-88-3	5	U	U	UGL		Toluene	1A 1			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 10061-02-6	5	U	U	UGL		trans-1,3-Dichloropropene	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 79-01-6	3	J	U	UGL		Trichloroethene	A			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 108-05-4	10	U	U	UGL		Vinyl Acetate	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 75-01-4	10	U	U	UGL		Vinyl Chloride	V			
SW00450WC	10/24/90	10/24/90	C017	Water	1037402A	ITC02	11/01/90	1921	VBLK2	VOCCAPTEL	TR 1330-02-7	5	U	U	UGL		Xylenes (total)	1A 1			

PROJECT SAMPLE NUMBER	COLLECTION DATE	TIME	BATCH NUMBER	LAB SAMPLE MATRIX	LAB NUMBER	SAMPLE ANALYSIS				BLANK SAMPLE NUMBER	LAB TEST	R5 ID	CAS NUMBER	ANALYTICAL RESULT	25KG ERR	UNIT OF MEASUREMENT	RETURN TIME	PARAMETER NAME	INSTRUMENT DETECTION REASONS				Q1 UNIT OF MEASUREMENT
						LAB	DATE	TIME	HE										1	2	3	4	
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 117-81-3	10	U		UQ/L	But-2-Ethylhexylphthalate						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 83-68-7	10	U		UQ/L	Butylbenzylphthalate						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 218-01-9	10	U		UQ/L	Chrysene						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 53-70-3	10	U		UQ/L	Dibenz(a,h)anthracene						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 132-64-9	10	U		UQ/L	Dibenzofuran						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 84-66-2	10	U		UQ/L	Diethylphthalate						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 133-11-3	10	U		UQ/L	Dimethylphthalate						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 84-74-2	10	U		UQ/L	Di-n-butylphthalate						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 117-84-0	10	U		UQ/L	Di-n-octylphthalate						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 206-44-0	10	U		UQ/L	Fluoranthene						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 86-73-7	10	U		UQ/L	Fluorene						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 118-74-1	10	U		UQ/L	Hexachlorobenzene						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 87-48-3	10	U		UQ/L	Hexachlorobutadiene						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 77-47-4	10	U		UQ/L	Hexachlorocyclopentadiene						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 67-72-1	10	U		UQ/L	Hexachloroethane						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 193-39-5	10	U		UQ/L	Indeno(1,2,3-cd)pyrene						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 78-58-1	10	U		UQ/L	Isophorone						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 91-20-3	10	U		UQ/L	Naphthalene						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 98-95-3	10	U		UQ/L	Nitrobenzene						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 621-64-7	10	U		UQ/L	N-Nitroso-di-n-dipropylamine						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 86-30-6	10	U		UQ/L	N-nitrosodiphenylamine						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 87-86-5	50	U		UQ/L	Penachlorophenol						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 83-01-8	10	U		UQ/L	Phenanthrene						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 103-95-3	10	U		UQ/L	Phenol						
SW0004-S0WC	102490		C017	Water	1037402C	ITCS	1021/90	11:02:90	1337	SBLK1	SVOC/LPCL	TR 120-00-0	10	U		UQ/L	Pyrene						

EM DEPARTMENT DATA ASSESSMENT
SUMMARY REPORT FORM

Batch No. 9010C074 Site Surface Water
Laboratory ITAS - Cerritos No. of Samples/Matrix 13/Water
SOW # 7/88 Reviewer Org. QuantaLex, Inc.

Sample Numbers SW00373WC (total and soluble), SW00449WC (total and soluble), SW00450WC (total and soluble), SW00453WC (total and soluble), SW80058WC (total and soluble), SW80059WC (total and soluble), NP50026WC

Data Assessment Summary

	ICP	AA	Hg	CN	Comments
1. Holding Times	<u>V</u>	<u>V</u>	<u>V</u>	<u>N/A</u>	
2. Calibrations	<u>A</u>	<u>V</u>	<u>R</u>	<u>N/A</u>	<u>Action Items 1-4</u>
3. Blanks	<u>A</u>	<u>A</u>	<u>V</u>	<u>N/A</u>	<u>Action Items 5-13</u>
4. ICP Interference Check Sample	<u>A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>Action Items 14-20</u>
5. Matrix Spike Sample Results	<u>V</u>	<u>A</u>	<u>V</u>	<u>N/A</u>	<u>Action Items 21-25</u>
6. Duplicate Sample Results	<u>V</u>	<u>V</u>	<u>V</u>	<u>N/A</u>	
7. Lab Control Sample Results	<u>V</u>	<u>V</u>	<u>V</u>	<u>N/A</u>	
8. Method of Standard Addition	<u>N/A</u>	<u>A</u>	<u>N/A</u>	<u>N/A</u>	<u>Action Item 26</u>
9. Serial Dilution	<u>V</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	
10. Sample Verification	<u>V</u>	<u>V</u>	<u>V</u>	<u>N/A</u>	
11. Other QC	<u>X</u>	<u>X</u>	<u>X</u>	<u>N/A</u>	<u>Comments 1-6</u>
12. Overall Assessment	<u>A</u>	<u>A</u>	<u>R</u>	<u>N/A</u>	<u>Data acceptable with qualifications</u>

V = Data had no problems.

A = Data acceptable but qualified due to problems.

R = Data rejected.

X = Problems, but do not affect data.

N/A = Not applicable.

Data Quality: Data contained in this batch were reviewed and found to be acceptable with qualifications. Acceptable, qualified data may be used provided that individual values impacted by the "Action Items" listed below are appropriately flagged. (Refer to attached Results Summary Tables).

Action Items: 1) The Manganese values for SW00373WC (total and soluble), SW00453WC (total and soluble), SW80058WC (total and soluble), and NP500226WC (total) are estimated (J) because CRDL check sample (CRI) recovery criteria were not met.

2) The Molybdenum value for SW00373WC (soluble) is estimated (J) because CRDL check sample (CRI) recovery criteria were not met.

3) All Phosphorus values except SW80058WC (total and soluble) are estimated (J) because CRDL check sample (CRI) recovery criteria were not met.

4) All Mercury non-detects are rejected (R) because of incorrect calibration of instrument.

5) The Calcium value for SW80058WC (total and soluble) are estimated and undetected (UJ) because Calcium values > IDL were found in the blanks.

6) The Iron values for SW80058WC (soluble), SW00373WC (soluble), and SW00453WC (soluble) are estimated and undetected (UJ) because Iron values > IDL were found in the blanks.

7) The Iron, Silver, and Vanadium values for SW00450WC (total), SW0080059WC (total), and NP500226WC (total) are estimated and undetected (UJ) because analyte values > IDL were found in the blanks.

8) The Lead values for SW00373WC (total), SW00449WC (total), SW00450WC (total), SW00453WC (total), SW80058WC (total), SW80059WC (total), and NP500226WC (total) are estimated and undetected (UJ) because Lead values > IDL were found in the blanks.

9) The Lead non-detects for SW00373WC (soluble) and SW00449WC (soluble) are estimated and undetected (UJ) because of negative bias indicated in the blanks.

10) The Magnesium and Vanadium values for SW80059WC (total) are estimated and undetected (UJ) because analyte values > IDL were found in the blanks.

11) The Silicon non-detect for SW80058WC (soluble) is rejected (R) because of negative bias indicated in the blanks.

12) The Silver values for SW00373WC (total) and SW00453WC (total) are estimated and undetected (UJ) because Silver values > IDL were found in the blanks.

13) The Thallium value for SW00453WC (soluble) is estimated (J) because Thallium values > IDL were found in the blanks.

Action Items (cont.): 14) The Antimony values for SW00449WC (total and soluble) are estimated and undetected (UJ) because of possible interference as indicated in the ICP Interference Check Sample.

15) The Beryllium and Cadmium non-detects for SW00449WC (total and soluble), SW00450WC (total and soluble), and SW80059WC (total and soluble) are rejected (R) because of possible interference as indicated in the ICP Interference Check Sample.

16) The Copper and Zinc non-detects for SW00449WC (soluble), SW00450WC (soluble), and SW80059WC (soluble) are rejected (R) because of possible interference as indicated in the ICP Interference Check Sample.

17) The Copper and Zinc values for SW00449WC (total), SW00450WC (total), and SW80059WC (total) are estimated (J) because of possible interference as indicated in the ICP Interference Check Sample.

18) The Manganese values for SW00449WC (total), SW00450WC (total), and SW80059WC (total) are estimated and undetected (UJ) because of possible interference as indicated in the ICP Interference Check Sample.

19) The Vanadium values for SW00449WC (total and soluble), SW00450WC (soluble), and SW80059WC (soluble) are estimated (J) because of possible interference as indicated in the ICP Interference Check Sample.

20) The Tin values for SW00449WC (total) and SW80059WC (total) are estimated (J), and the value for SW00450WC (total) is estimated and undetected (UJ) because of possible interference as indicated in the ICP Interference Check Sample.

21) The Selenium values for SW00453WC (soluble) and SW80059WC (soluble) are estimated (J), and the non-detects for SW00373WC (soluble) and SW80058WC (soluble) are estimated and undetected (UJ) because pre-digestion matrix spike recovery criteria were not met.

22) The Thallium non-detects for SW00373WC (soluble), SW00449WC (soluble), SW00450WC (soluble), SW80058WC (soluble), and SW80059WC (soluble) are estimated and undetected (UJ) because pre-digestion matrix spike recovery criteria were not met.

23) The Selenium values for SW00449WC (total), SW00453WC (soluble), SW80059WC (soluble), and NP500226WC (total) are estimated (J), and the non-detect for SW00373WC (total) are estimated and undetected (UJ) because post-digestion matrix spike recovery criteria were not met.

24) The Thallium non-detect for SW00373WC (total) is estimated and undetected (UJ) because post-digestion matrix spike recovery criteria were not met.

Action Items (cont.): 25) The Arsenic value for SW00373WC (soluble) is estimated (J) because post-digestion matrix spike recovery criteria were not met.

26) The Selenium value for SW00450WC (soluble) is estimated (J) because MSA calibration correlation coefficient was < 0.995.

Comments: 1) In order to comply with SOW 7/88, the digestion logs should indicate whether the final pH of the prepped samples is < 2 or > 12, as applicable. No final pH values were reported.

2) A post-digestion spike concentration of 6.0 ug/L was used for Lead. In order to comply with SOW 7/88, the post-spike concentration should have been 20.0 ug/L.

3) The Laboratory Control Sample values for Calcium, Lithium, Magnesium, and Sodium were not listed on EPA Form VII for total samples.

4) The Thallium IDL was changed for 0.9 ug/L to 2.9 ug/L for samples SW00373WC (total), SW00453WC (total), SW80059WC (total), and NP50226WC (total). More than one instrument was used to analyze the samples. In compliance with SOW 7/88, the higher IDL (2.9 ug/L) was used to validate the data and to report non-detects.

5) The Thallium IDL was changed from 0.60 ug/L to 0.90 ug/L for samples SW00373WC (soluble) and SW00449WC (soluble). More than one instrument was used to analyze the samples. In compliance with SOW 7/88, the higher IDL (0.9 ug/L) was used to validate the data and to report non-detects.

Note: Data Summary Tables are attached.

Pamela C. McEllan
Validator Signature

6/3/91
Date

Christine R. Gomez
Reviewer Signature

6/3/91
Date

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE	TD# MONDAY	BATCH NUMBER	SAMPLE MATRIX	LAB SAMPLE NUMBER	LAB ID	PRIP DATE	ANALYSIS DATE	TIME HOUR	BLANK SAMPLE NUMBER	LAB TEST PANEL CODE	MS ID	CAL NUMBER	ANALYT RESULT	RESLT QUA FIBER	UNIT OF MEASU	UNIT TIME	PARAMETER NAME	INSTRUMENT DISTINCTION LIMIT	REASONS 1 2 3 4	QLJ UNIT OF MEASU	QLJ PREF
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7429-90-5	56.8			UG/L	10	Aluminum				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-36-0	26.0		U	UG/L	0.05	Antimony				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-38-2	2.0			UG/L	5	Arsenic				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-39-3	1.59			UG/L	0.02	Barium				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-41-7	0.60		U	UG/L	0.2	Beryllium				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-43-9	2.9		U	UG/L	0.1	Cadmium				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-70-2	39800			UG/L	100	Calcium				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-46-2	500		U	UG/L	5	Cesium				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-73-3	4.0		U	UG/L	0.02	Chromium				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-48-4	4.0		U	UG/L	0.02	Cobalt				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-50-8	4.0			UG/L	10	Copper				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7439-89-6	401			UG/L	5	Iron				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7439-92-1	91.6			UG/L	20	Lead				U
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7439-93-2	2.6			UG/L	5	Lithium				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7439-95-4	43100			UG/L	0.1	Magnesium				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7439-96-5	17.7			UG/L	10	Manganese				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7439-97-6	0.10		U	UG/L	0.02	Mercury				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7439-98-7	13.0		U	UG/L	10	Molybdenum				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-02-0	22.0			UG/L	0.02	Nickel				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-09-7	9470			UG/L	10	Potassium				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7782-49-2	1.2		U	UG/L	5	Selenium				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-22-4	4.0			UG/L	25	Silver				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-23-5	168000			UG/L	10	Sodium				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-24-6	496			UG/L	10	Strontium				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-28-0	0.90		U	UG/L	0.1	Thallium			99	2.9
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-31-5	26.3			UG/L	10	Tin				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-63-2	7.7			UG/L	5	Vanadium				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7440-66-6	34.8			UG/L	10	Zinc				
SW00373WC	10/25/90		9010074	Water	C010376030	ITCA	11/17/90	11/24/90			SMITCPTAL	7723-14-0	502			UG/L	10	Phosphorus				

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/YY	TIME H:M	BATCH NUMBER	SAMPLE MATERIAL	LAB SAMPLE NUMBER	LAB ID	SAMPLE PREP DATE MM/DD/YY	ANALYSIS DATE MM/DD/YY	TIME H:M	BLANK SAMPLE NUMBER	LAB TEST CODE	KS ID	CAS NUMBER	ANALYT RESULT	UNIT OF MEAS	RETRN TION TIME	PARAMETER NAME	INSTRUMENT DETECTION LIMIT	REASONS 1 2 3 4	QJ UNIT OF MEAS	QJ PER
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7429-90-5	27.0		U		Aluminum	10	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-36-0	29.4		U		Antimony	0.05	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-38-2	1.8		U		Arsenic	5	JA	14	
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-39-3	168		U		Barium	0.02	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-41-7	0.60		U		Beryllium	0.2	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-43-9	2.9		U		Calcium	0.1	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-76-2	43900		U		Cesium	100	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		12/05/90			DMRTCLPTAL	7440-46-2	55.0		U		Cesium	5	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-47-3	4.0		U		Chromium	5	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-48-4	4.0		U		Cobalt	0.02	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-50-8	7.6		U		Copper	10	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7439-49-6	6.6		U		Iron	5	JA	7	
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7439-52-1	0.40		U		Lead	20	JA	8	
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7439-53-2	103		U		Lithium	5	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7439-55-4	47900		U		Magnesium	0.1	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7439-86-5	4.6		U		Manganese	10	JA	5	
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA	11/27/90	11/28/90			DMRTCLPTAL	7439-97-6	0.10		U		Mercury	0.02	R	6	
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7439-98-7	15.6		U		Molybdenum	10	JA	5	
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-02-0	12.0		U		Nickel	0.02	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-09-7	10500		U		Potassium	10	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/27/90			DMRTCLPTAL	7782-49-2	1.2		U		Selenium	5	JA	12	14
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-21-3	3200		U		Silicon	10	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-22-4	3.9		U		Silver	25	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-23-5	187000		U		Sodium	10	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-24-6	548		U		Strontium	10	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-28-0	0.60		U		Thallium	0.1	JA	12	14
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-31-5	86.1		U		Titanium	10	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-40-2	8.2		U		Vanadium	5	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7440-46-6	2.3		U		Zinc	10	V		
SW00373WC	10/25/90		9010074	Water	C01037603H	ITCA		11/24/90			DMRTCLPTAL	7723-14-0	638		U		Phosphorus	10	JA	5	

Total/Soluble Metals

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE TIME MM/DD/YYYY	BATCH NUMBER	SAMPLE MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPLE DATE MM/DD/YYYY	ANALYSIS DATE MM/DD/YYYY	BLANK SAMPLE NUMBER	TEST PANEL CODE	LAB ID	CAS NUMBER	ANALYT RESULT	UNIT OF MEAS	REASON 1 2 3 4	INSTRUMENT LIMIT	PARAMETER NAME	Q/L UNIT OF MEAS	Q/L QUA PER
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7429-90-5	27.0	U	UG/L		10	Aluminum	U	
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-36-0	32.6	U	UG/L		0.05	Antimony	U	
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-38-2	1.6	U	UG/L		5	Arsenic		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-38-3	264	U	UG/L		0.02	Barium		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-41-7	0.60	U	UG/L		0.2	Beryllium		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-43-9	2.9	U	UG/L		0.1	Cadmium		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-70-2	290000	U	UG/L		100	Calcium		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	12/05/90	12/05/90		DMITCLPTA	7440-46-2	53.0	U	UG/L		5	Cesium		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-41-3	4.0	U	UG/L		5	Chromium		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-48-4	4.0	U	UG/L		0.02	Cobalt		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-30-8	3.0	U	UG/L		10	Copper		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7439-89-6	3.0	U	UG/L		5	Iron		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7439-92-1	0.40	U	UG/L		20	Lead		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7439-93-2	298	U	UG/L		5	Lithium		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7439-93-4	85800	U	UG/L		0.1	Magnesium		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7439-96-5	0.90	U	UG/L		10	Manganese		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7439-97-6	0.10	U	UG/L		0.02	Mercury		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7439-98-7	13.0	U	UG/L		10	Molybdenum		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-03-0	12.0	U	UG/L		0.02	Nickel		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-06-7	51600	U	UG/L		10	Potassium		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7782-49-2	5.4	U	UG/L		5	Selenium		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-21-3	7380	U	UG/L		10	Silicon		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-23-4	4.4	U	UG/L		25	Silver		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-23-5	354000	U	UG/L		10	Sodium		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-26-6	2400	U	UG/L		10	Strontium		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-28-0	0.60	U	UG/L		0.1	Thallium		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-31-5	107	U	UG/L		10	Tin		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-62-2	10.7	U	UG/L		5	Vanadium		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-66-6	2.0	U	UG/L		10	Zinc		
SW00449WC	10/24/90	9010074	Water	C0107601H	ITCA	11/24/90	11/24/90		DMITCLPTA	7723-14-0	790	U	UG/L		10	Phosphorus		

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/YYYY	SAMPLE COLLECTION TIME HH:MM	BATCH NUMBER	SAMPLE MATRIX	LAB SAMPLE NUMBER	LAB ID	PREP DATE MM/DD/YYYY	SAMPLE DATE MM/DD/YYYY	ANALYSIS DATE MM/DD/YYYY	BLANK SAMPLE NUMBER	LAB TEST PANEL CODE	AS ID	CAL NUMBER	ANALYST RESULT	MSLT QUA IPER	2.5G ERROR	UNIT OF MEASU	RETEN TION TIME	PARAMETER NAME	INSTRUMENT DETECTION LIMIT	REASONS 1 2 3 4	QLI RESULT	QLI UNIT OF MEASU	QLI QUA IPER
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7429.90.5	68.6				UGOL		Aluminum	10				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7440.36.0	26.0				UGOL		Antimony	0.05				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7440.38.2	1.6				UGOL		Arsenic	5				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7440.39.3	158				UGOL		Barium	0.02				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7440.41.7	0.60				UGOL		Beryllium	0.2				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7440.43.9	2.9				UGOL		Cadmium	0.1				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7440.46.2	340000				UGOL		Calcium	100				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7440.48.4	500				UGOL		Cesium	5				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7440.48.4	4.0				UGOL		Chromium	5				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7440.50.8	12.7				UGOL		Cobalt	0.02				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7439.89.6	45.2				UGOL		Copper	10				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7439.92.1	2.2				UGOL		Iron	5				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7439.92.1	328				UGOL		Lead	20				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7439.95.4	90300				UGOL		Lithium	5				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7439.96.5	1.3				UGOL		Magnesium	0.1				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7439.97.6	10.18				UGOL		Manganese	10				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7439.98.7	13.0				UGOL		Mercury	0.02				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7440.09.7	53600				UGOL		Molybdenum	10				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7440.02.0	17.1				UGOL		Nickel	0.02				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7792.49.2	7.3				UGOL		Potassium	10				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7440.22.4	6.6				UGOL		Selenium	5				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7440.23.5	387000				UGOL		Silver	25				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7440.24.6	27100				UGOL		Sodium	10				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7440.28.0	2.9				UGOL		Strontium	0.1				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7440.31.5	21.4				UGOL		Thallium	10				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7440.62.2	14.5				UGOL		Tin	5				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7440.66.6	72.9				UGOL		Vanadium	10				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL	7723.14.0	555				UGOL		Zinc	10				
SW0004.S0WC	10/24/90		9010C074	Water	CO107402H	ITCA	11/17/90	11/24/90			SMITCLPTAL								Phosphorus	10				

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE	TIME MM/DD/YY	BATCH NUMBER	SAMPLE MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPLE PREP DATE	ANALYSIS DATE	TIME MM/DD/YY	BLANK SAMPLE NUMBER	LAB TEST CODE	IS ID	CAS NUMBER	ANALYT RESULT	BSLT Q/A P/B	UNIT (U) MEASU	UNIT TIME	PARAMETER NAME	INSTRUMENT LIMIT	VE	REASONS 1 2 3 4	Q/L UNIT OF MEASU	Q/L Q/A P/B
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7428-90-5	27.0	U		UG/L		Aluminum	10	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-36-0	26.0	U		UG/L		Antimony	0.05	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-38-2	1.6	U		UG/L		Arsenic	5	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-39-3	170			UG/L		Barium	0.02	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-41-7	0.60	U		UG/L		Beryllium	0.2	R	9		
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-43-9	2.9	U		UG/L		Cadmium	0.1	R	9		
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-45-3	371000			UG/L		Calcium	100	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-46-3	55.0	U		UG/L		Cesium	5	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-47-3	4.0	U		UG/L		Chromium	5	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-48-4	4.0	U		UG/L		Cobalt	0.02	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-50-8	3.0	U		UG/L		Copper	10	R	9		
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7439-89-6	3.0	U		UG/L		Iron	5	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7439-92-1	0.40	U		UG/L		Lead	20	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7439-93-2	358			UG/L		Lithium	5	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7439-95-4	97400			UG/L		Magnesium	0.1	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7439-96-5	0.90	U		UG/L		Manganese	10	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7439-97-6	0.10	U		UG/L		Mercury	0.02	R	6		
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7439-98-7	13.0	U		UG/L		Molybdenum	10	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-02-0	12.0	U		UG/L		Nickel	0.02	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-09-7	58100			UG/L		Potassium	10	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-22-2	11.6			UG/L		Selenium	5	JA	16		
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-21-3	6190			UG/L		Silicon	10	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-22-4	5.3			UG/L		Silver	25	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-23-5	419000			UG/L		Sodium	10	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-24-6	2930			UG/L		Strontium	10	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-28-0	0.90	U		UG/L		Thallium	0.1	JA	12		
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-31-5	107			UG/L		Tin	10	V			
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-63-2	12.9			UG/L		Vanadium	5	JA	9		
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7440-66-6	2.0	U		UG/L		Zinc	10	R	9		
SW004-S0W-C	10/24/90		9010C074	Water	C010374021	ITCA	11/24/90	11/24/90			DMRTCLPTA	7723-14-0	691			UG/L		Phosphorus	JA	5	9		

Total/Sortable Metals

PROJECT SAMPLE NUMBER	SAMPLE COLLECTED DATE MM/DD/YYYY	BATCH NUMBER	LAB SAMPLE MATRIX NUMBER	LAB ID	SAMPLE		LAB ANALYSIS DATE MM/DD/YYYY	BLANK SAMPLE NUMBER	LAB TEST CODE	MS ID	CAS NUMBER	ANALYSIS RESULT	RES-3 QUALITY INDEX	2 SD ERROR	UNIT OF MEASUREMENT	RETURN TIME	PARAMETER NAME	INTERIM LIMIT	MASSONS				QLI RESULT	QLI UNIT OF MEASUREMENT
					LAB	SHIP													VD 1	VD 2	VD 3	VD 4		
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7429-90-5	65.1				UGL		Aluminum	10						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7440-36-0	26.0		U		UGL		Antimony	0.05						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/27/90		SMITCPTAL	7440-38-2	1.6		U		UGL		Arsenic	5						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7440-39-3	130				UGL		Barium	0.02						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7440-41-7	0.60		U		UGL		Beryllium	0.2						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7440-43-9	2.9		U		UGL		Cadmium	0.1						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7440-70-2	81500				UGL		Calcium	100						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7440-46-2	500		U		UGL		Cesium	5						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7440-47-3	4.0		U		UGL		Chromium	5						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7440-48-4	4.0		U		UGL		Cobalt	0.02						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7440-50-8	5.5				UGL		Copper	10						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7439-89-6	811				UGL		Iron	5						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/29/90		SMITCPTAL	7439-92-1	3.1				UGL		Lead	20	1A	7			U	
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7439-93-2	26.0		U		UGL		Lithium	5						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7439-95-4	20700				UGL		Magnesium	0.1						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7439-96-5	655				UGL		Manganese	10	1A	5				
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7439-97-6	0.14		U		UGL		Mercury	0.02						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7439-98-7	13.0		U		UGL		Molybdenum	10						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7440-02-0	12.0				UGL		Nickel	0.02						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7440-09-7	2450				UGL		Potassium	10						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/27/90		SMITCPTAL	7782-49-2	1.9				UGL		Selenium	5	1A	14			U	
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7440-22-4	4.4				UGL		Silver	25	1A	7				
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7440-23-5	41700				UGL		Sodium	10						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7440-24-6	507				UGL		Strontium	10						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	12/06/90		SMITCPTAL	7440-28-0	1.3				UGL		Thallium	0.1						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7440-31-5	21.1				UGL		Tin	10						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7440-42-2	8.8				UGL		Vanadium	5						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7440-66-6	39.7				UGL		Zinc	10						
SW00453WC	10/25/90	9010074	Water	C01037604G	ITCA	11/07/90	11/24/90		SMITCPTAL	7723-14-0	310				UGL		Phosphorus		1A	5				
															</									

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/YYYY	BATCH NUMBER	SAMPLE MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPLE PREP DATE MM/DD/YYYY	ANALYSIS DATE MM/DD/YYYY	BLANK SAMPLE NUMBER	LAB TEST CODE	IS ID	CAS NUMBER	ANALYTICAL RESULT	MSLT Q/A P/P	UNIT OF MEASUREMENT	RETENTION TIME	PARAMETER NAME	INSTRUMENT DETECTION LIMIT	REASONS 1 2 3 4	Q/L UNIT OF MEASUREMENT	Q/L RESULT
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7429-90-5	27.0	U		UG/L		Aluminum	10	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-38-0	26.0	U		UG/L		Antimony	0.05	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-38-2	1.6	U		UG/L		Arsenic	5	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-39-3	5.0	U		UG/L		Berium	0.02	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-41-7	0.60	U		UG/L		Beryllium	0.3	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-43-9	2.9	U		UG/L		Cadmium	0.1	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-70-2	1.38	U		UG/L		Calcium	100	IA	7	U
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-46-2	500	U		UG/L		Cesium	5	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-47-3	4.0	U		UG/L		Chromium	5	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-48-4	4.0	U		UG/L		Cobalt	0.02	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-50-8	27.5	U		UG/L		Copper	10	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7439-89-6	88.0	U		UG/L		Iron	5	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7439-92-1	0.60	U		UG/L		Lead	20	IA	7	U
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7439-93-2	26.0	U		UG/L		Lithium	5	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7439-95-4	48.8	U		UG/L		Magnesium	0.1	IA	7	U
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7439-96-5	1.4	U		UG/L		Manganese	10	IA	5	
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7439-97-6	0.10	U		UG/L		Mercury	0.02	IA	6	
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7439-98-7	13.0	U		UG/L		Molybdenum	10	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-02-0	12.0	U		UG/L		Nickel	0.02	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-09-7	390	U		UG/L		Potassium	10	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7782-49-2	1.2	U		UG/L		Selenium	5	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-22-4	2.0	U		UG/L		Silver	25	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-23-5	427	U		UG/L		Sodium	10	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-24-6	2.0	U		UG/L		Steradium	10	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-28-0	2.9	U		UG/L		Thallium	0.1	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-31-5	17.0	U		UG/L		Tin	10	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-62-2	3.2	U		UG/L		Vanadium	5	IA	7	U
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7440-66-6	39.9	U		UG/L		Zinc	10	V		
SW80058WC	10/24/90	90100374	Water	CO107401H	ITCA	11/17/90	11/24/90		SMITCPTAL	7733-14-0	101	U		UG/L		Phosphorus		V		

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE TIME MM/DD/YYYY	BATCH NUMBER	SAMPLE MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPLE DATE MM/DD/YYYY	ANALYSIS DATE TIME MM/DD/YYYY	BLANK SAMPLE NUMBER	LAB TRIST PANIL COORD	RS ID	CAS NUMBER	ANALYTICAL RESULT	RSLT Q/A P/BK	UNIT OF MEASUR	RETURN TIME	PARAMETER NAME	INSTRUMENT DETECTION LIMIT	REASONS 1 2 3 4	Q/L UNIT OF MEASUR
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7429-90-5	29.7			UG/L		Aluminum	10	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7440-16-0	26.0	U		UG/L		Antimony	0.05	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7440-58-2	1.6	U		UG/L		Arsenic	5	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7440-39-3	5.1	U		UG/L		Barium	0.02	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7440-41-7	0.60	U		UG/L		Beryllium	0.2	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7440-43-9	2.9	U		UG/L		Cadmium	0.1	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7440-70-2	75.6	U		UG/L		Calcium	100	JA	7
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	12/05/90	12/05/90		DMETNOCLF	7440-46-2	55.0	U		UG/L		Cadmium	5	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7440-47-3	4.0	U		UG/L		Chromium	5	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7440-48-4	4.0	U		UG/L		Cobalt	0.02	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7440-50-8	3.0	U		UG/L		Copper	10	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7439-89-6	6.5			UG/L		Iron	5	JA	7
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7439-92-1	0.60			UG/L		Lead	20	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETNOCLF	7439-93-2	26.0	U		UG/L		Lithium	5	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7439-95-4	64.1			UG/L		Magnesium	0.1	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7439-96-5	0.95			UG/L		Mercury	10	JA	5
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7439-97-6	0.10	U		UG/L		Mercury	0.02	R	6
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETNOCLF	7439-98-7	13.0	U		UG/L		Molybdenum	10	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7440-02-0	12.0	U		UG/L		Nickel	0.02	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7440-09-7	1270			UG/L		Potassium	10	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7782-49-2	1.2	U		UG/L		Selenium	5	JA	12
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETNOCLF	7440-21-3	64.0	U		UG/L		Silicon	10	R	8
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7440-22-4	5.9			UG/L		Silver	25	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7440-23-5	11.3	U		UG/L		Sodium	10	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETNOCLF	7440-24-6	2.0	U		UG/L		Strontium	10	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7440-28-0	0.90	U		UG/L		Thallium	0.1	JA	12
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETNOCLF	7440-31-5	17.0	U		UG/L		Tin	10	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7440-52-2	5.6			UG/L		Vanadium	5	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7440-66-6	3.2			UG/L		Zinc	10	V	
SW80058WC	10/24/90	90100074	Water	C01076041	ITCA	11/24/90	11/24/90		DMETCLPTA	7723-14-0	101	U		UG/L		Phosphorus		V	

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/YYYY	BATCH NUMBER	SAMPLE MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPLE ANALYSIS DATE MM/DD/YYYY	BLANK SAMPLE NUMBER	LAB ID	CAS NUMBER	ANALYTICAL RESULT	2 SD ERROR	UNIT OF MEASUREMENT	REMARKS TIME	PARAMETER NAME	INSTRUMENT LIMIT	INSTRUMENT VD	REASONS 1 2 3 4	QJ UNIT OF MEASUREMENT	QJ QUA PER
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7429-90-5	63.0		UG/L		Aluminum	10	V			
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-38-0	26.0	U	UG/L		Antimony	0.05	V			
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-38-2	1.6	U	UG/L		Arsenic	5	V			
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-39-3	255		UG/L		Boron	0.02	V			
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-41-7	0.60	U	UG/L		Beryllium	0.2	R	9		
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-43-9	2.9	U	UG/L		Calcium	0.1	R	9		
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-70-2	277000		UG/L		Cadmium	100	V			
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-46-2	500	U	UG/L		Cerium	5	V			
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-47-3	4.0	U	UG/L		Cerium	5	V			
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-48-4	4.0	U	UG/L		Cobalt	0.02	V			
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-50-8	4.2		UG/L		Copper	10	JA	9		
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7439-89-6	34.3		UG/L		Iron	5	JA	7		U
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7439-92-1	1.9		UG/L		Lead	20	JA	7		U
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7439-93-2	279		UG/L		Lithium	5	V			
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7439-95-4	81600		UG/L		Magnesium	0.1	V			
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7439-96-5	0.97		UG/L		Manganese	10	JA	9		U
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7439-97-6	0.10	U	UG/L		Mercury	0.02	R	6		
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7439-98-7	13.0	U	UG/L		Nickel	10	V			
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-02-0	12.0	U	UG/L		Nickel	0.02	V			
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-09-7	49410		UG/L		Potassium	10	V			
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7782-49-2	1.6		UG/L		Selenium	5	JA	14		U
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-22-4	6.9		UG/L		Silver	25	JA	7		
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-23-5	536000		UG/L		Sodium	10	V			
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-24-6	22710		UG/L		Sternum	10	V			
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-26-0	0.90	U	UG/L		Thallium	0.1	V		99 2.9	UG/L U
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-31-5	28.2		UG/L		Tin	10	JA	9		
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-62-2	15.9		UG/L		Vanadium	5	JA	7		U
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7440-66-6	11.4		UG/L		Zinc	10	JA	9		
SW80059WC	10/24/90	90100074	Water	C01037403H	ITCA	11/07/90	11/24/90	SMITCPLTA	7723-14-0	674		UG/L		Phosphorus	10	JA	5 9		

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/YYYY	RATCH NUMBER	SAMPLE MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPLE DATE MM/DD/YYYY	ANALYSIS DATE MM/DD/YYYY	BLANK SAMPLE NUMBER	LAB TEST CODE	RS ID	CAS NUMBER	ANALYTICAL REMARK	UNIT OF MEASUREMENT	INTER- COMPARISON TIME	PARAMETER NAME	INSTRUMENT DESCRIPTION	REASON FOR RETEST	QLI RESULT	QLI UNIT OF MEASUREMENT
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7429-90-5	27.0	U	UGL		Aluminum	10	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-36-0	26.0	U	UGL		Antimony	0.05	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-36-2	1.6	U	UGL		Arsenic	5	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-36-3	26.5	U	UGL		Boron	0.02	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-41-7	0.60	U	UGL		Beryllium	0.2	R	9	
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-43-9	2.9	U	UGL		Cadmium	0.1	R	9	
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-70-2	292000	U	UGL		Calcium	100	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-46-2	55.0	U	UGL		Cerium	5	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-47-3	4.0	U	UGL		Chromium	5	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-48-4	4.0	U	UGL		Cobalt	0.02	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-50-8	3.0	U	UGL		Copper	10	R	9	
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7439-89-6	3.0	U	UGL		Iron	5	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7439-92-1	0.40	U	UGL		Lead	20	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7439-93-2	299	U	UGL		Lithium	5	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7439-95-4	86300	U	UGL		Magnesium	0.1	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7439-96-5	0.90	U	UGL		Manganese	10	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7439-97-6	0.10	U	UGL		Mercury	0.02	R	6	
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7439-98-7	13.0	U	UGL		Molybdenum	10	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-02-0	12.0	U	UGL		Nickel	0.02	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-09-7	51700	U	UGL		Potassium	10	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7782-49-2	2.3	U	UGL		Selenium	5	IA	12	14
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-31-3	7420	U	UGL		Silicon	10	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-22-4	2.8	U	UGL		Silver	25	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-33-5	356000	U	UGL		Sodium	10	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-34-6	2420	U	UGL		Strontium	10	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-28-0	0.90	U	UGL		Thallium	0.1	IA	12	
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-31-5	110	U	UGL		Tin	10	V		
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-52-2	9.8	U	UGL		Vanadium	5	IA	9	
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7440-46-6	2.0	U	UGL		Zinc	10	R	9	
SW80059WC	10/24/90	9010074	Water	COI 074001	ITCA	11/24/90	11/24/90		DMITCLPTA	7723-14-0	708	U	UGL		Phosphorus	14	5	9	

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/YY	BATCH NUMBER	SAMPLE MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPLE DATE MM/DD/YY	ANALYSIS DATE MM/DD/YY	BLANK SAMPLE NUMBER	LAB TEST CODE	RS ID	CAS NUMBER	ANALYTICAL RESULT	ASLT QVA UPPER	UNIT OF MEASUR	INTERPRETATION TIME	DETECTION LIMIT	PARAMETER NAME	DETECTION LIMIT	Q1 UNIT OF MEASUR	Q1 RESULT	Q1 UNIT OF MEASUR	Q1 PER
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7428-90-5	27.0	U	UGL		10	Aluminum		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-36-0	26.0	U	UGL		0.05	Antimony		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-38-2	1.6	U	UGL		5	Arsenic		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-39-3	78.1	U	UGL		0.02	Boron		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-41-7	0.60	U	UGL		0.3	Beryllium		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-43-9	2.9	U	UGL		0.1	Cadmium		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-70-2	43600	U	UGL		100	Calcium		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-46-2	500	U	UGL		5	Cesium		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-47-3	4.0	U	UGL		5	Chromium		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-48-4	4.0	U	UGL		0.02	Cobalt		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-50-8	17.2	U	UGL		10	Copper		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7439-89-6	51.8	U	UGL		5	Iron		UGL		U	
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7439-92-1	3.7	U	UGL		20	Lead		UGL		U	
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7439-93-2	26.0	U	UGL		5	Lithium		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7439-95-4	9840	U	UGL		0.1	Magnesium		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7439-96-5	3.4	U	UGL		10	Mercury		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7439-97-6	0.10	U	UGL		0.02	Mercury		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7439-98-7	13.0	U	UGL		10	Molybdenum		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-02-0	12.0	U	UGL		0.02	Nickel		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-09-7	7790	U	UGL		5	Potassium		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7782-49-2	1.4	U	UGL		14	Selenium		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-22-4	5.9	U	UGL		25	Silver		UGL		U	
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-23-5	31500	U	UGL		10	Sodium		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-24-6	253	U	UGL		10	Strontium		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-28-0	0.90	U	UGL		0.1	Thallium		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-31-5	23.1	U	UGL		10	Tin		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-62-2	6.1	U	UGL		5	Vanadium		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7440-66-6	23.6	U	UGL		10	Zinc		UGL			
NP50226WC	10/24/99	90100374	Water	C0111301A	ITCA	11/07/99	11/24/99		SMITCPTAL		7723-14-0	143	U	UGL		14	Phosphorus		UGL			

CONTRACTOR Woodward Clyde
Federal Services SAMPLERS WLG, EDB, GJM
SITE CONTACT/PHONE Bruce La Rue (303) 966-5874
LAB/LOCATION IT Corp/ Oak Ridge, TN

PROJECT # 4002-410

C-O-C NUMBER WC-IT0122 (4.05)

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

DATE/TIME	SAMPLE NUMBER	LOCATION	CONTAINER TYPE
10/24/90 1513	5102458WU	51094	40mL AG
1517			1L AG
1520			1L AG
1515			1L CHASS
1522			1L Poly
1525			1L Poly
1528			1L Poly
1530			200mL Poly
1532			1L Poly
1542			125mL Poly
BWL 10-1-90			

NUMBER OF CONTAINERS	2
MEDIA SOIL(S) WATER (W)	W
FILTERED=F POT DISS=P	
TURN AROUND RUSH=R	
OUT OF SPEC REPORTS REQUIRED	
COOLED TO 4 C Y/N	Y
Zn(C2H3O2)2	
NaOH	
HNO3	
H2SO4	
Na2S2O3	

PRESERVATIVE

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
VOA-CLP																
PRESERVED WITH HCL																
BNA-CLP																
PEST/PCB-CLP																
TRIAZINES																
OIL AND GREASE																
METALS, CS, LI, SR, SN, MO																
PRESERVED WITH C6H8O6																
TSS, TDS, CL, F, SO4, CO3, HCO3, SI, NO2																
Tot Phos, NO3/NO2, NH4																
0-Phos																
H2S																
DOC IF FILTERED																
GROSS A/B																
PU239/240, AM241																
U233/234, 235, 238																
Sr89/90, Cs137, Ra226, 228																
H3																
RADIATION SCREEN																

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	LABORATORY USE ONLY	Y / N
<u>Steve La Rue</u>	10/24/90 1700	<u>Bruce La Rue</u>		PCKG REC'D/CUSTODY SEALS INTACT	
<u>Bruce La Rue</u>	10/26/90 1145	<u>Steve La Rue</u>	10/27/90 1700	SAMPLE LABELS/COCs AGREE	
<u>Steve La Rue</u>	10/30/90 1330	<u>Steve La Rue</u>	10/31/90 0900	TEMPERATURE WITHIN SPECIFICATION _____ C	
				CORRECTED COPY ATTACHED	
				OTHER PROBLEMS OR DISCREPANCIES	
REMARKS <u>REC'D OK</u>	SHIPMENT METHOD <u>Fed Ex</u>				

CONTRACTOR Federal Services Samplers L.L.C., EDB, G-TW

SITE CONTACT/PHONE Bruce LaRue 303-766-5874

LAB/LOCATION IT Corp / Oakridge, TN

C-O-C NUMBER WC-IT 0122 (S. 75)

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

DATE/TIME		SAMPLE NUMBER	LOCATION	CONTAINER TYPE
	10-24-78	1250		40mL Vial
		1301		1L AG-
		1304-		1L AG-
		1312 -		1L AG-
		1320		1L Poly
		1330		1L Poly
		1316		1L Poly
		1327		250mL Poly
		1346		1L Poly
		1420		150mL Poly
			BWL	10-26-78

REL INQUIRED BY	DATE/TIME	RECEIVED BY
W. H. Harrison	12/24/40 17:00	Bauer
Bauer Labue	12/26/40 11:45	St. A.
Steve J. Anglin	12/30/40 13:30	P. Sawyer
REMARKS	RECEIVED 12/26/40	
	SHIPMENT M	

[illegible]

DATE/TIME		LABORATORY USE ONLY	Y / N
		PCKG REC'D/CUSTODY SEALS INTACT	
		SAMPLE LABELS/COCs AGREE	
		TEMPERATURE WITHIN SPECIFICATION _____C	
		CORRECTED COPY ATTACHED	
		OTHER PROBLEMS OR DISCREPANCIES	
METHOD Fed Ex			

PROJECT # 4002-418

Woodward Clyde

W-10014

CONTRACTOR Federal Service 3 SAMPLERS WLG, EDB, GJM

PROJECT # 4002-418

SITE CONTACT/PHONE Bruce La Rue 303-766-5824

LAB/LOCATION IT Corp / Oakridge, TN
BWL 10-26-90

C-O-C NUMBER WC-IT0122 (3 of 5)

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

DATE/TIME	SAMPLE NUMBER	LOCATION	CONTAINER TYPE
10/19/90 1528	SW00450 WC	SW095	40ml Vial
1530			1L AG
1532			1L AG
1535			1L AG
1537			1L Poly
1540			1L Poly
1542			1L Poly
1545			250ml Poly
1547			1L Poly
1557			100-2L AG
		BWL 10-26-90	

NUMBER OF CONTAINERS	
MEDIA SOIL(S) WATER (W)	
FILTERED=F POT DISS=P	
TURN AROUND RUSH=R	
OUT OF SPEC REPORTS REQUIRED	
COOLED TO 4 C Y/N	
Zn(C2H3O2)2	
NaOH	
HNO3	
H2SO4	
Na2S2O3	

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	LABORATORY USE ONLY	Y / N
<u>Robert M. Brown</u>	10/19/90 1700	<u>Bruce La Rue</u>		PCKG REC'D/CUSTODY SEALS INTACT	
<u>Bruce La Rue</u>	10/19/90 1145	<u>IT Corp</u>	10/19/90 1500	SAMPLE LABELS/COCs AGREE	
<u>The Jungles</u>	10/30/90 13:30	<u>P. Snyder</u>	10/30/90 0900	TEMPERATURE WITHIN SPECIFICATION	C
				CORRECTED COPY ATTACHED	
				OTHER PROBLEMS OR DISCREPANCIES	
REMARKS	<u>RECEIVED</u>				
	SHIPMENT METHOD <u>Fed Ex</u>				

W-10214, W-10217

304902

PROJECT

SAMPLERS

Ray Michael - Jim Swamy

CONTRACTOR

1000

000-0079

SITE CONTACT/PHONE

000-0079

LAB/LOCATION

000-0079

C-O-C NUMBER

000119

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

DATE/TIME	SAMPLE NUMBER	LOCATION	CONTAINER TYPE
10-25-91 1440	GW00578IT	1486	Urn/Quartz
10-25-91 1510			L Poly
10-25-91 1512			250ml Poly
10-25-91 1505			L Poly
10-25-91 1520			L Poly
10-24-91 1320	GW00578IT	1486	602 Poly
10-24-91 0915	GW00573IT	sep 1489	Urn/Quartz
10-24-91 0950			L Poly
10-24-91 1000			250ml Poly
10-25-91 0935			L Poly
10-23-91 1015	GW00573IT	sep 1489	602 Poly

NUMBER OF CONTAINERS
MEDIA SOIL(S) WATER (W)
FILTERED=F POT DISS=P
TURN AROUND RUSH=R
OUT OF SPEC REPORTS REQUIRED

PRESERVATIVE

Zn(C2H3O2)2

COOLED TO 4C Y/N

NaOH

HNO3

H2SO4

Na2S2O3

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
VOA-CLP	PREERVED WITH HCL															
BNA-CLP																
PEST/PCB-CLP																
TRIAZINES																
OIL AND GREASE																
METALS, CS, LI, SF, SN, MO																
PREERVED WITH C6H8O6																
SS, TDS, CL, F, SO4, CO3, HCO3, SI																
Tot Phos, NO3/NO2, NH4																
NO-Phos																
H2S																
DOC IF FILTERED																
GROSS A/B																
Pu239/240, Am241																
U233/234, 235, 238																
Sr89/90, Cs137, Ra226, 228																
H3																

RADIATION SCREEN

Y / N

LABORATORY USE ONLY

PKG REC'D/CUSTODY SEALS INTACT

SAMPLE LABELS/COCs AGREE

TEMPERATURE WITHIN SPECIFICATION _____ C

CORRECTED COPY ATTACHED

OTHER PROBLEMS OR DISCREPANCIES

REMARKS

WAYBILL NO E114722140

SHIPMENT METHOD

FED EXPRESS

PROJECT - 4002-418

SITE CONTACT/PHONE Bruce LaRue 303-966-5874

LAB/LOCATION IT Corp / Oakridge, TN

C-O-C NUMBER WC-IT 0122 (20fs)

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

[illegible]

Edward Clyde

CONTRACTOR W. Federal Serv. co. 3 SAMPLERS.

WLG, EDA, GJZ)

PROJECT - 4662-418

Bruce La Rue 303-966-5874

LAB/LOCATION TT Corp / Oakridge, TN

C-O-C NUMBER WC-ITØ/22 (10fs

EG&G ROCKY FLATS PLANT
CHAIN OF CUSTODY

DATE/TIME	SAMPLE NUMBER	LOCATION	CONTAINER TYPE
12/24/20	5004449610	SW894	40 mL Vial
12/51	1	1	40 mL Vial
12/52	1	1	40 mL Vial
1300	1	1	1 L AG
			1 L AG
1303	5004449610	SW894	1 L AG
1304	1	1	1 L AG
1316	1	1	1 L AG
1314	1	1	1 L AG
1320	1	1	1 L Poly
1322	1	1	1 L Poly
1330	1	1	1 L Poly
1334	1	1	1 L Poly
			10-26-20

[illegible][illegible][illegible]

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	LABORATORY USE ONLY	Y / N
<i>Bruce P. Davis</i>	4/4/90	<i>Bruce P. Davis</i>		PCKG REC'D/CUSTODY SEALS INTACT	
<i>Bruce P. Davis</i>	10/21/89	<i>Bruce P. Davis</i>	12/10/89	SAMPLE LABELS/COCs AGREE	
<i>Tim J. Davis</i>	4/30/90	<i>Tim J. Davis</i>	12/31/89	TEMPERATURE WITHIN SPECIFICATION _____C	
				CORRECTED COPY ATTACHED	
REMARKS	OTHER PROBLEMS OR DISCREPANCIES				
SHIPMENT METHOD					
FED EX					

00381

CO-10076, CO-10077

304902

PROJECT

SAMPLERS

DANGER/USELESS

CONTRACTOR

SITE CONTACT/PHONE

LAB/LOCATION

C-O-C NUMBER 000099

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

DATE/TIME	SAMPLE NUMBER	LOCATION	CONTAINER TYPE	NUMBER OF CONTAINERS	MEDIA SOIL(S) WATER (W)	FILTERED=F POT DISS=P	TURN AROUND RUSH=R	OUT OF SPEC REPORTS REQUIRED	PRESERVATIVE	VOA-CLP PRESERVED WITH HCL	BNA-CLP	PEST/PCB-CLP	TRIAZINES	OIL AND GREASE	METALS, CS, LI, SR, SN, MO	PREPARED WITH C6H8O6	TSS, TDS, CI, F, SO4, CO3, HCO3, Si, NO2	Tot Phos, NO3/NO2, NH4	0-Phos	H2S	TOC	GROSS A/B	Pu239/240, Am241	U233/234, 235, 238	Sr89/90, Cs137, Ra226, 228	H3	RADIATION SCREEN
10290 1447	600058417	Q582	100ml Poly	1					COOLED TO 4 C Y/N																		
10290 1433			40ml Glass	2																							
1442			L Poly	1		F																					
1444			250ml Poly	1																							
1443			L Poly	1		F																					
1454		✓	L Poly	1																							

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	LABORATORY USE ONLY	Y / N
Patricia Spindler	10290 1700	Patricia Spindler	10-25-80 1700	PCKG REC'D/CUSTODY SEALS INTACT	
Patricia Spindler	10-26-80 1230	Patricia Spindler	10-27-80 1140	SAMPLE LABELS/COCs AGREE	
Patricia Spindler	10-27-80 1330	Patricia Spindler	10-28-80 1000	TEMPERATURE WITHIN SPECIFICATION _____C	
				CORRECTED COPY ATTACHED	
				OTHER PROBLEMS OR DISCREPANCIES	

REMARKS

WAYBILL No 8114722140

SHIPMENT METHOD FED EXPRESS

PROJECT # 304902

DARRAGH / LIESVELD

SAMPLERS.

IT Corp

CONTRACTOR.

SITE CONTACT/PHONE Carl Lupp 303-966-6079

Carl Lupp

SITE CONTACT/PHONE

LAB/LOCATION	IT LAB	CAK Redge

IT LAB

LAB/LOCATION

C-O-C NUMBER 000041

EG&G ROCKY FLATS PLANT

CHAIN OF CUSTODY

DATE/TIME	SAMPLE NUMBER	LOCATION	CONTAINER TYPE
102390	GW00430IT	2789BR	40mL 51055
102390	GW00560IT	2789BR	↓
102390	↑	↑	100mL 104
102390	↑	↑	L 1024
102390	GW00560IT	2789BR	250mL 105

NUMBER OF CONTAINERS	
MEDIA SOIL(S) WATER (W)	
FILTERED=F	POT DISS=P
TURN AROUND RUSH=R	
OUT OF SPEC REPORTS REQUIRED	

COOLED TO 4 C. Y/N	20(C2H3O2)2	NAOH	HNO3	H2SO4	M-35002
--------------------	-------------	------	------	-------	---------

[illegible]

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	LABORATORY USE ONLY	Y / N
10/25/90	1700	P. Long	10-25-90 1700	PCKG REC'D/CUSTODY SEALS INTACT	
10/26/90	1125	F. Long	10/26/90 11	SAMPLE LABELS/COCs AGREE	
10/26/90	13:30	P. Long	10/26/90 1000	TEMPERATURE WITHIN SPECIFICATION	C
				CORRECTED COPY ATTACHED	
REMARKS	OTHER PROBLEMS OR DISCREPANCIES				
Way 1100. 8114722140					
SHIPMENT METHOD FED EXPRESS					

CO-10376, CO-10377

IT CORP.

SAMPLERS

CONTRACTOR
SITE CONTACT/PHONE
LAB/LOCATION

CARL LIPP / 303-966-6079

IT - OAK RIDGE, TN

C-O-C NUMBER 000088

EG&G ROCKY FLATS PLANT
CHAIN OF CUSTODY

DATE/TIME	SAMPLE NUMBER	LOCATION	CONTAINER TYPE
10-23-91 1255	GLW005661T	3280	100m Poly
10-24-91 1230			40m Glass
10-24-91 1315			Liter Poly
10-24-91 1340			250m Poly
10-24-91 1320			Liter Poly
10-24-91 1355			Liter Poly

NUMBER OF CONTAINERS
MEDIA SOIL(S) WATER (W)
TURN AROUND RUSH = R
OUT OF SPEC REPORTS REQUIRED
COOLED TO 4 C Y/N
Zn(C2H3O2)2
NaOH
HNO3
H2SO4
Na2S2O3

PRESERVATIVE

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
VOA-CLP	PREPARED WITH HCL															
BNA-CLP																
PEST/PCB-CLP																
TRIAZINES																
OIL AND GREASE																
RETALS, CS, LI, SF, SN, MO																
CN	PREPARED WITH C6H8O6															
TES, TDS, CL, F, SO4, CO3, HCO3, SI, NO2																
DOT Phos, NO3/NO2, NH4																
0-Phos																
H2S																
DOC IF FILTERED																
GROSS A/B																
Pu239/240, Am241																
U233/234, 235, 238																
Sr89/90, Cs137, Ra226, 228																
H3																
RADIATION SCREEN																

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	LABORATORY USE ONLY	Y / N
Carl Lipp	10-25-91 1700	Phil Lipp	10-25-91 1700	PCKG REC'D/CUSTODY SEALS INTACT	
Carl Lipp	10-26-91 1030	Phil Lipp	10-26-91 1400	SAMPLE LABELS/COCs AGREE	
Carl Lipp	10-26-91 1330	Phil Lipp	10-26-91 1000	TEMPERATURE WITHIN SPECIFICATION	C
				CORRECTED COPY ATTACHED	
				OTHER PROBLEMS OR DISCREPANCIES	
REMARKS					
WAFBILL DC 8114722140	SHIPMENT METHOD FED EXPRESS				

00385

CONTRACTOR IT CORP SAMPLERS DARRAGH LIESVELD
 SITE CONTACT/PHONE CALL Lipp 303 966-6079
 LAB/LOCATION IT Labs OAK RIDGE

C-O-C NUMBER 000037

EG&G ROCKY FLATS PLANT
 CHAIN OF CUSTODY

DATE/TIME	SAMPLE NUMBER	LOCATION	CONTAINER TYPE
102370	6W00575	0682	40 mL POLY
102490			40 mL glass
1323			L POLY
1329			250 mL POLY
1328			L POLY
102890	6W00438IT	0682	40 mL glass

MEDIA SOIL(S) WATER (W) _____
 FILTERED=F POT DISS=P
 TURN AROUND RUSH=R
 OUT OF SPEC REPORTS REQUIRED

PRESERVATIVE
 COOLED TO 4C Y/N
 Zn(CH3O2)2
 NaOH
 HNO3
 H2SO4
 Na2S2O3

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
VOA-CLP	PRESERVED WITH HCL															
BNA-CLP																
PEST/PCB-CLP																
TRIAZINES																
OIL AND GREASE																
METALS, CS, LI, SR, SN, MO																
CN	PRESERVED WITH C6H8O6															
TSS, TDS, CI, F, SO4, CO3, HCO3, SI, NO2																
Tot Phos, NO3/NO2, NH4																
(O-Phos)																
H2S																
TOC	DOC IF FILTERED															
GROSS A/B																
Pu239/240, Am241																
U235/234, 235, 238																
Sr89/90, Cs137, Ra226, 228																
H3	RADIATION SCREEN															

LABORATORY USE ONLY	Y / N
PCKG REC'D/CUSTODY SEALS INTACT	
SAMPLE LABELS/COCs AGREE	
TEMPERATURE WITHIN SPECIFICATION	C
CORRECTED COPY ATTACHED	
OTHER PROBLEMS OR DISCREPANCIES	

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
<i>Patricia Thomas</i>	02590 1700	<i>P. Liesveld</i>	10-25-80 1700
<i>Patricia Thomas</i>	10-11-80 1125	<i>P. Liesveld</i>	10-17-80 1147
<i>Patricia Thomas</i>	10-20-80 1330	<i>P. Liesveld</i>	10-20-80 1200

REMARKS IT CORP 1100 P.M. 8/28
 Shipment Method FED EXPRESS
 Waybill No 8114722140

00000

PROJECT # 4802-410

LJ. Miller / E. Bianco / L. Early

CONTRACTOR Woodward Clyde Samplers

CONTRACTOR NAME: Bruce LaRue 966-5874

SITE CONTACT/PHONE _____
LAB/LOCATION IT Corp Oakridge TN

C-O-C NUMBER WC-IT 0123

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

[illegible]

00387

woodward-clyde

CONTRACTOR Federal Services

SAMPLERS ID Dal Lago, Greg Waldmann, Scott McCormick PROJECT = 4002 - 4/00

SITE CONTACT/PHONE Bruce LaRue 906-5874

LAB/LOCATION IT Corp

C-O-C NUMBER WC-IT0124

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

DATE/TIME	SAMPLE NUMBER	LOCATION	CONTAINER TYPE
10/25/84	SW00373WC	SW098	40ml AG ✓
1330			40ml AG ✓
1340			1L AG ✓
1345			1L AG ✓
1335			1L AG ✓
1350			1L Poly ✓
1335			1L Poly ✓
1355			1L Poly ✓
1400			1L Poly ✓
1400			1L Poly ✓
1330	SW090166WC		40ml AG ✓
1330			40ml AG ✓

NUMBER OF CONTAINERS
MEDIA SOIL(S) WATER (W)
FILTERED=F POT DISS=P
TURN AROUND RUSH=R
OUT OF SPEC REPORTS REQUIRED

COOLED TO 4 C/Y/N
Zn(C2H3O2)2
NaOH
HNO3
H2SO4
Na2S2O3

PRESERVATIVE

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
VOA-CLP	PREPARED WITH HCL															
BNA-CLP																
PEST/PCB-CLP																
TRIAZINES																
OIL AND GREASE																
METALS, CS, LI, SR, SN, MO																
PREPARED WITH HCL																
CN																
PREPARED WITH C6H8O6																
TSS, TDS, CL, F, SO4, CO3, HCO3, SI, NO2																
Tot Phos, NO3/NO2, NH4																
0-Phos																
H2S																
TOC																
GROSS A/B																
PU239/240, Am241																
U233/234, 235, 238																
Sr89/90, Cs137, Ra226, 228																
RADIATION SCREEN																

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	LABORATORY USE ONLY	Y / N
Scott A. McDaniel	10/24/90 4936	Bruce LaRue		PKG REC'D/CUSTODY SEALS INTACT	
Bruce LaRue	10/26/90	Scott A. McDaniel	10/27/90 1330	SAMPLE LABELS/COCs AGREE	
Joe Anderson	10/26/90	Bruce LaRue	10/27/90 1330	TEMPERATURE WITHIN SPECIFICATION	C
				CORRECTED COPY ATTACHED	
				OTHER PROBLEMS OR DISCREPANCIES	

REMARKS: 10/26/90 10:00 AM ATTORNEY'S NOTICE RECEIVED 10/27/90 10:00 AM
SHIPMENT METHOD Fed Ex

88300

SAMPLES

PROJECT - 304902

CONTRACTOR
SITE CONTACT/PHONE

LAB/LOCATION:

C-O-C NUMBER

000103

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

DATE/TIME		SAMPLE NUMBER	LOCATION	CONTAINER TYPE
12/25/10	11:27	GW00592	IT 4587	40 ml. glass
	12:12			1 L. poly
	12:15			250 ml. poly
	12:14			1 L. poly
12/25/10	12:56	GW00592	IT 4587	1 L. poly
12/25/10	1:45	GW00592	IT 4587	100 ml. poly
12/25/10	09:25	GW00527	IT 5487	40 ml. glass
12/25/10	09:45	GW00527	IT 5487	100 ml. poly

NUMBER OF CONTAINERS	
MEDIA SOIL(S) WATER (W)	
FILTERED=F	POT DISS=P
TURN AROUND RUSH = R	
OUT OF SPEC REPORTS REQUIRED	

PRESERVATIVE

COOLED TO 4 C Y/N	Zn(C ₂ H ₃ O ₂) ₂	NaOH	HNO ₃	H ₂ SO ₄	Na ₂ SO ₃
-------------------	--	------	------------------	--------------------------------	---------------------------------

[illegible]

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME		LABORATORY USE ONLY	Y / N
T. H. H. H.	10/25/90	1700		10/25/90	1700	
T. H. H. H.	10/25/90	1130		10/25/90	1130	
T. H. H. H.	10/25/90	1330		10/25/90	1330	
T. H. H. H.						
REMARKS	10/25/90 1130					
WAYBILL NO. E11472140 SHIPMENT METHOD FED EXPRESS						

0038y

EM DEPARTMENT DATA ASSESSMENT
SUMMARY REPORT FORM

Batch No. 9010C081 Site Surface Water
Laboratory ITAS - Cerritos No. of Samples/Matrix 3/Water
Method Standard Methods Reviewer Org. QuantaLex, Inc.
Sample Numbers SW00450WC, SW80058WC, SW80059WC

Data Assessment Summary

		Silica	CN	Phos.	Alkal.	Cl	Nitrate/ Nitrite	Sulfide/Oil&Grease Sulfate	Grav.	Comments
1.	Holding Times	<u>V</u>	<u>V</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>V</u>	
2.	Calibrations	<u>V</u>	<u>V</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>V</u>	
3.	Blanks	<u>A</u>	<u>A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>V</u>	<u>Action Items 1-2</u>
4.	Lab Control Sample Results	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>V</u>	
5.	Duplicate Sample Results	<u>X</u>	<u>X</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>X</u>	<u>Comment 1</u>
6.	Matrix Spike Sample Results	<u>V</u>	<u>V</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>X</u>	<u>Comment 2</u>
7.	Sample Verification	<u>V</u>	<u>V</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>V</u>	
8.	Other QC	<u>V</u>	<u>V</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>V</u>	
9.	Overall Assessment	<u>A</u>	<u>A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>V</u>	<u>Data valid or acceptable with qualifications</u>

V = Data had no problems.

A = Data acceptable but qualified due to problems.

R = Data rejected.

X = Problems, but do not affect data.

N/A = Not applicable.

Data Quality: Data contained in this batch were reviewed and found to be valid or acceptable with qualifications. Acceptable, qualified data may be used provided that individual values impacted by the "Action Items" listed below are appropriately flagged.
(Refer to attached Results Summary Tables).

Action Items: 1) All Silica values are estimated (J), and non-detects are estimated and undetected (UJ) because a continuing calibration blank was not analyzed at the proper frequency.

2) All Cyanide non-detects are estimated and undetected (UJ) because a continuing calibration blank was not analyzed.

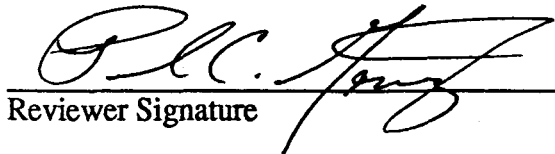
Comments: 1) A laboratory duplicate was not analyzed for Silica, Cyanide, and Oil/Grease; data not affected.

2) A matrix spike sample was not analyzed for Oil/Grease; data not affected.

Note: Data Summary Tables are attached.


Validator Signature

5/30/91
Date


Reviewer Signature

5/30/91
Date

CO-10374

CONTRACTOR Woodward Clyde
Federal Services SAMPLERS 426, EDB, GTM

PROJECT * 4002-418

SITE CONTACT/PHONE Bruce La Rue 303-966-5834

LAB/LOCATION IT Corp / Oakridge, TN
BWL 10-26-90

C-O-C NUMBER WC-ITP/22 (3 of 5)

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

DATE/TIME	SAMPLE NUMBER	LOCATION	CONTAINER TYPE
10/24/90 1528	SW00450 WC	SW095	40 mL Vial
1530			1L AG
1532			1L AG
1535			1L AG
1537			1L Poly
1540			1L Poly
1542			1L Poly
1545			250 mL Poly
1547			1L Poly
1557			100 mL AG

NUMBER OF CONTAINERS	
MEDIA SOIL(S) WATER (W)	
FILTERED=F POT DISS=P	
TURN AROUND RUSH=R	
OUT OF SPEC REPORTS REQUIRED	

PRESERVATIVE

COOLED TO 4 C Y/N	X
Zn(C2H3O2)2	
NaOH	
HNO3	
H2SO4	X
Na2S2O3	

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
VOA-CLP PRESERVED WITH HCL																
BNA-CLP																
PEST/PCB-CLP																
TRIAZINES																
OIL AND GREASE																
METALS, Cs, Li, Sr, Sn, Mo																
CN PRESERVED WITH C6H8O6																
TSS, TDS, Cl, F, SO4, CO3, HCO3, Si, NO2																
Tot Phos, NO3/NO2, NH4																
-O-Phos																
H2S																
TOC																
GROSS A/B																
Pu239/240, Am241																
U233/234, 235, 238																
Sr89/90, Cs137, Ra226, 228																
H3																
RADIATION SCREEN																

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	LABORATORY USE ONLY	Y / N
<u>Woodward Clyde</u>	10/24/90 1700	<u>Bruce La Rue</u>		PCKG REC'D/CUSTODY SEALS INTACT	
<u>Bruce La Rue</u>	10/26/90 1145	<u>J. T. La Rue</u>	10/27/90 1300	SAMPLE LABELS/COCs AGREE	
<u>The Janglelin</u>	10/30/90 13:30	<u>P. Janglelin</u>	10/31/90 0900	TEMPERATURE WITHIN SPECIFICATION _____ C	
				CORRECTED COPY ATTACHED	
REMARKS <u>RECD STOCK</u>				OTHER PROBLEMS OR DISCREPANCIES	
SHIPMENT METHOD <u>Fed Ex</u>					

W-10574

CONTRACTOR Woodward Clyde PROJECT * 4002-410
FEDERAL SERVICES WLG, EDB, GIM
SAMPLERS WLG, EDB, GIM

SITE CONTACT/PHONE Bruce LaRue (303) 966-5874

LAB/LOCATION IT Corp/ Oak Ridge, TN

C-O-C NUMBER WC-IT 0122 (40F5)

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

DATE/TIME	SAMPLE NUMBER	LOCATION	CONTAINER TYPE	NUMBER OF CONTAINERS	MEDIA SOIL(S) WATER (W)	FILTERED=F POT DISS=P	TURN AROUND RUSH=R	OUT OF SPEC REPORTS REQUIRED	COOLED TO 4 C Y/N	Zn(C2H3O2)2	NaOH	HNO3	H2SO4	Na2S2O3
10/24/90 1513	52084580C	52084	40mL AG	2	W		X	X	Y					
1517			1L AG	2	W		X	X	Y					
1520			1L AG	2	W		X	X	Y					
1525			1L GLASS	1	W		X	X	Y					
1528			1L Poly	1	W		X	X	Y					
1528			1L Poly	1	W		X	X	Y					
1530			250mL Poly	1	W		X	X	Y					
1532			1L Poly	1	W		X	X	Y					
1542			125mL Poly	1	W		X	X	Y					
BWL 10-9-90														
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	LABORATORY USE ONLY	DATE/TIME	Y / N								
<u>Bruce LaRue</u>	10/24/90 1500	<u>Bruce LaRue</u>		PCKG REC'D/CUSTODY SEALS INTACT										
<u>Bruce LaRue</u>	10/26/90 1145	<u>Bruce LaRue</u>	10/26/90 1300	SAMPLE LABELS/COCs, AGREE										
<u>Steve Laughter</u>	10/30/90 1330	<u>Steve Laughter</u>	10/31/90 0800	TEMPERATURE WITHIN SPECIFICATION _____C										
				CORRECTED COPY ATTACHED										
				OTHER PROBLEMS OR DISCREPANCIES										
REMARKS <u>REC'D 10/30/90</u>			SHIPMENT METHOD <u>Fed Ex</u>											

00027

42.01-077

CONTRACTOR Federal Services SAMPLERS WLG, EDB, GTW

PROJECT # 4002-418

SITE CONTACT/PHONE Bruce LaRue 303-966-5874

LAB/LOCATION IT Corp / Oakridge, TN

C-O-C NUMBER WC-IT 0122 (5.75)

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

DATE/TIME	SAMPLE NUMBER	LOCATION	CONTAINER TYPE	NUMBER	MEDIA	FILTER	TURN A	OUT OF
10-24-97	1250	SW094	40m L VIAL	2	G	X	X	X
	1301		1L AG	1	W	X	X	X
	1304-		1L AG	2	W	X	X	X
	1312 -		1L AG	2	W	X	X	X
	1320		1L Poly	1	W	X	X	X
	1332		1L Poly	1	W/F	X	X	X
	1316		1L Poly	1	G	X	X	X
	1337		250mL Poly	1	W	X	X	X
	1346		1L Poly	1	W	X	X	X
↓	1420	↓	150mL Poly	1	W	X	X	X
		BWL	10-26-98					

PRESERVATIVE	
	30212
	() TO 4 C Y/N
SPEC REPORTS REQUIRED	
ROUND RUSH = R	
ED=F POT DISS=P	
60L(S) WATER (W)	
R OF CONTAINERS	

[illegible]

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	LABORATORY USE ONLY	Y / N
<i>Sharon</i>	10/24/90 17:00	<i>Bruce LaRue</i>		PCKG REC'D/CUSTODY SEALS INTACT	
<i>Bruce LaRue</i>	10/26/90 11:45	<i>Di-Ann</i>	10/27/90 13:00	SAMPLE LABELS/COCs AGREE	
<i>Steve Janghlin</i>	10/30/90 13:30	<i>P. Snyder</i>	10/31/90 09:00	TEMPERATURE WITHIN SPECIFICATION _____C	
				CORRECTED COPY ATTACHED	
REMARKS	OTHER PROBLEMS OR DISCREPANCIES				
<div> <div>RECD 10/20/90</div> <div>SHIPMENT METHOD Fed Ex</div> </div>					

00028

EM DEPARTMENT DATA ASSESSMENT
SUMMARY REPORT FORM

File No. 9011T277 Site Surface Water Monitoring
Laboratory Teledyne Isotopes No. of Samples/Matrix 20/Water
QLI No. R00362 Reviewer Org. QuantaLex, Inc.
Sample Numbers SW00433WC, SW00449WC, SW80059WC, SW80058WC, SW00450WC,
SW00453WC, SW00458WC, SW00459WC, SW00457WC, SW00456WC, SW80060WC, SW80061WC,
SW00373WC, SW00466WC, SW00462WC, SW00469WC, SW00467WC, SW00522WC, SW00520WC,
SW00464WC

Data Assessment Summary

Gross $\alpha + \beta$ Analysis
by Gas Proportional Counters

	Alpha	Beta	Comments
1. Holding Times	<u>V</u>	<u>V</u>	
2. Initial Calibrations	<u>V</u>	<u>V</u>	
3. Continuing Calibrations	<u>V</u>	<u>V</u>	
4. Laboratory Blanks	<u>V</u>	<u>V</u>	
5. Lab Replicates	<u>X</u>	<u>X</u>	<u>See Action Item 1</u>
6. Lab Control Samples	<u>R</u>	<u>R</u>	<u>See Action Item 2; Comment 1</u>
7. Size of Aliquot	<u>V</u>	<u>V</u>	<u>See Comment 2</u>
8. Self-Absorption Factors	<u>V</u>	<u>V</u>	
9. Sample Calculations	<u>V</u>	<u>V</u>	<u>See Comment 3</u>
10. Overall Assessment	<u>R</u>	<u>R</u>	<u>See Comment 4</u>

V = Data had no problems.

A = Data acceptable but qualified due to problems.

R = Data rejected.

X = Problems, but do not affect data.

Data Quality: The Gross alpha and Gross beta data contained in this batch were reviewed and found to be rejected. See
Action Items and Comments for discussion. (Refer to attached Data Summary Tables).

Action Items: 1) Lab Replicates: No lab replicates were analyzed with this Sample Delivery Group (SDG), however this did not appear to impact the overall quality of the data; thus the results were flagged X.

2) Lab Control Samples (LCSs): Both Gross alpha and Gross beta LCSs associated with this SDG fell outside their respective 3 σ control limits. The Gross alpha and Gross beta results were flagged R, Rejected.

Comments: 1) LCSs: The relative percent error for the Gross alpha LCS was 44.2%. The relative percent error for the Gross beta LCS was 8.7%.

2) Minimum Detectable Activities (MDAs): The MDAs for samples SW00433WC, SW00449WC, SW80059WC, SW00450WC, SW00457WC, SW00373WC, and SW00466WC exceeded the Required Detection Limits (RDLs) for both the Gross alpha and Gross beta analyses. The MDAs for samples SW00522WC and SW00520WC exceeded the RDL for the Gross alpha analysis.

3) Sample Calculations: The laboratory reported "less than" values on the Data Summary Report Table for those samples with activities less than the MDA. The reviewer calculated the activities for the samples and included them in the OLI Results column of the Data Summary Report Table. In addition, the reviewer calculated the uncertainties for these samples and included them in the 2 Sig Error column with a suffix of Q.

4) Overall Assessment: The laboratory did not report the MDAs for the Gross alpha and Gross beta analyses. The reviewer calculated the MDAs as follows:

<u>Sample ID</u>	<u>Gross alpha MDA (pCi/L)</u>	<u>Gross beta MDA (pCi/L)</u>
SW00433WC	4.89	6.06
SW00449WC	11.73	14.55
SW80059WC	11.36	14.44
SW80058WC	1.29	1.81
SW00450WC	12.32	14.74
SW00453WC	2.35	3.24
SW00458WC	2.17	3.10
SW00459WC	1.74	1.88
SW00457WC	3.99	5.78
SW00456WC	2.24	1.99
SW80060WC	1.29	1.81
SW80061WC	2.33	2.01
SW00373WC	4.59	5.97
SW00466WC	4.89	6.06

<u>Sample ID</u>	<u>(pCi/L)</u>	<u>(pCi/L)</u>
SW00462WC	1.85	1.90
SW00469WC	2.29	2.00
SW00467WC	1.04	1.51
SW00522WC	2.92	4.23
SW00520WC	2.90	4.23
SW00464WC	2.48	4.09
19349 BLK	0.97	1.41
19351 LCS	1.08	1.44

Note: Data Summary Tables are attached.

Nikki Wilson
Validator Signature

7/17/91
Date

Richard Thurman
Reviewer Signature

7/18/91
Date

**Radiochemical Data Completeness
Checklist for Radiometric and Gross α & β Analyses
of Soil and Water by Gas Proportional Counters**

- A. Yes Case Narrative
 Yes Abnormalities explained
 Yes Matrix Problems explained
 Yes Instrument problems explained
 Yes Improper collection, storage, preservation, container explained
 Yes Hold times met, explained if not met
- B. Yes Initial and Continuing Calibration Data Package
 Yes Detector ID
 Yes Date and Time calibrated, calibration check, Analyst initials
 Yes Radionuclide Standard Name, NIST certification and expiration
 dates, and DPM value
 Yes Aliquots of standards used
 Yes Raw tapes from counters showing alpha and beta counts
 obtained and count durations for each weight of salt
 Yes Weights of salts
 Yes Efficiencies
 Yes Best fit curve coefficients
 Yes Reliability check source name, NIST certification,
 expiration and DPM activity
 Yes Raw tapes from counters showing alpha and beta counts
 obtained and count durations for reliability checksource
 N/A Efficiency checksource name, NIST certification, expiration,
 and DPM activity
 N/A Raw tapes from counters showing alpha and beta counts
 obtained and count duration for checksource
 Yes Efficiency obtained for checksource
 Yes Results of lab statistical test used to evaluate reliability
 and efficiency checks
 Yes Background counts obtained and count duration for each detector
 Yes Results of lab statistical test used to evaluate the instrument
 background
- C. Yes Reagent Blanks Data Package
 Yes ID of each detector used
 Yes Analyst initials
 Yes Date reagent blanks were analyzed
 Yes ID of samples analyzed with the reagent blanks
 No Type of method blank used, MDA of method
 Yes Volume of aliquot for reagent blanks
- D. No Replicate Sample Data Package
 No ID of each detector used
 No Analyst Initials
 No Date sample and replicates were analyzed
 No Sample IDs, values obtained for sample and replicates
 No Count Duration of sample and replicates
 No Volume of aliquot for sample and replicates
 No Calculated uncertainties and MDAs

- E. Yes Lab Control Samples (LCSs) Data Package
 Yes ID of each detector used
 Yes Analyst initials
 Yes Date LCSs were analyzed
 Yes ID of LCS
 No Values obtained for LCSs with uncertainty and MDA
 Yes True value of LCSs with uncertainty
 Yes ID of samples analyzed with the LCSs
- F. Yes Minimum Detectable Activity
 Yes Background measurements including: counts and count durations of samples and backgrounds taken during the same weekly time period
 Yes Date of analysis
 Yes Background CPM
 No MDA calculated for both gross alpha and gross beta analysis of the sample
- G. Yes Size of Aliquot in Gross α & β Determination Data Package
 Yes Sample ID
 Yes Calculated volume of sample to deliver 150mgs solids
 Yes Raw data supporting efficiency factor and efficiency factor used
- H. Yes Sample Data Package
 Yes Printed report of results for sample, reruns
 Yes Raw Data from counter, copies of notebook pages
 Yes Manual/Computer calculations
 No Sample ID, Detector ID, obtained sample and background counts and count durations observed, aliquot of sample, weight of solids counted, detector efficiency, activities, uncertainties, and MDAs

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/YY	TIME HH:MM	BATCH NUMBER	SAMPLE MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPLE PREP DATE MM/DD/YY	SAMPLE ANALYSIS DATE MM/DD/YY	BLANK SAMPLE NUMBER	LAB TEST PANEL CODE	RS ID	CAS NUMBER	ANALYT RESULT	RSU QIA IFE	2 SIG ERROR	UNIT OF MEASU	RETEN TION TIME	PARAMETER NAME	INSTRUMENT DETECTION LIMIT	REASONS 1 2 3 4	OLI RESULT	OLI UNIT OF MEASU	QIA RER
SW80058WC	10/24/90	15:35	45277	WATER	19347	TELL	11/27/90	11/27/90	1200	19349	DRADS	DU 12587-47-2	N.A.			PC/L		GR-B	4	R 32 31 99			
SW80058WC	10/24/90	15:35	45277	WATER	19315	TELL	11/27/90	11/27/90	1200	19349	DRADS	TR 12587-47-2	2.000	U	1.04 Q	PC/L		GR-B	4	R 32 31 99	54 -0.88	PC/L	
SW80059WC	10/24/90	14:15	45277	WATER	19313	TELL	11/27/90	11/28/90	1200	19349	DRADS	TR 12587-46-1	22.000		10.00	PC/L		GR-A	2	R 32 31 99			
SW80059WC	10/24/90	14:15	45277	WATER	19313	TELL	11/27/90	11/28/90	1200	19349	DRADS	TR 12587-47-2	67.000		12.00	PC/L		GR-B	4	R 32 31 99			
SW80060WC	10/20/90	15:25	45277	WATER	19329	TELL	11/27/90	11/27/90	1200	19349	DRADS	TR 12587-46-1	1.000	U	0.81 Q	PC/L		GR-A	2	R 32 31 99	54 0.13	PC/L	
SW80060WC	10/20/90	15:25	45277	WATER	19329	TELL	11/27/90	11/27/90	1200	19349	DRADS	TR 12587-47-2	2.000	U	1.08 Q	PC/L		GR-B	4	R 32 31 99	54 -0.39	PC/L	
SW80061WC	10/20/90	14:15	45277	WATER	19331	TELL	11/27/90	11/27/90	1200	19349	DRADS	TR 12587-46-1	2.000	U	1.64 Q	PC/L		GR-A	2	R 32 31 99	54 1.45	PC/L	
SW80061WC	10/20/90	14:15	45277	WATER	19331	TELL	11/27/90	11/27/90	1200	19349	DRADS	TR 12587-47-2	3.200		1.400	PC/L		GR-B	4	R 32 31 99			

TELETYPE ISOTOPES

RUN DATE 01/22/91

REPORT OF ANALYSIS

PAGE 3

DELIVERY DATE 12/11/90

DATE RECEIVED 11/08/90

WORK ORDER NUMBER 4-5277

PAUL WHITE
LASCO SERVICES INCORPORATED
43 UNION BOULEVARD
LITTLE ROCK, AR 72201

DS-1072 PFEV19

80228-1824

WATER - SURFACE

SAMPLE NUMBER	CUSTOMER'S IDENTIFICATION	STA NUM	COLLECTION-DATE		NUCLIDE	ACTIVITY (PCI/LITER)	NUCL-UNIT-% U/M	MID-COUNT		VOLUME - UNITS	
			START DATE	STOP DATE				DATE	TIME	ASH-WGHT-%	LAB.
9316	SW00450WC	120ML	10/24 1555		H-3	3.2 +-1.4 E 03		12/15			5
9317	SW00450WC	PRSVD	10/24 1550		RA-226	L.T. 6. E-01		12/21			2
					RA-228	2.9 +-0.9 E 00		11/21			3
					GR-A	4.0 +-1.3 E 01		11/28			3
					GR-B	1.0 +-0.1 E 02		11/28			3
					SR-89	L.T. 1. E 00		12/04			3
					SR-90	L.T. 5. E-01		12/04			3
					CS-137	L.T. 6. E-01		12/19			4
					NP-237	L.T. 1. E 00		12/19			4
					U-234	5.9 +-0.4 E 01		11/19			6
					U-235	1.7 +-0.6 E 00		11/19			6
					U-238	3.9 +-0.3 E 01		11/19			6
					AM-241	L.T. 3. E-01		12/18			6
					PU-239	L.T. 5. E-01		11/24			6
9318	SW00453WC	SW017 125ML	10/25 1000		H-3	2.7 +-1.4 E 03		12/15			5
9319	SW00453WC	SW017 PRSVD	10/25 0959		RA-226	L.T. 9. E-01		12/26			2
					RA-228	L.T. 9. E-01		11/21			3
					GR-A	4.0 +-2.0 E 00		12/03			3
					GR-B	9.0 +-2.3 E 00		12/03			3
					SR-89	L.T. 1. E 00		12/04			3
					SR-90	L.T. 4. E-01		12/04			3
					CS-137	L.T. 8. E-01		12/03			4
					NP-237	L.T. 1. E 00		12/03			4
					U-234	2.1 +-0.7 E 00		12/04			6
					U-235	L.T. 2. E-01		12/04			6
					U-238	3.2 +-0.8 E 00		12/04			6
					AM-241	L.T. 2. E-02		12/07			6
					PU-239	L.T. 3. E-01		11/24			6

CONTRACTOR Federal Services SAMPLERS WLG, EDB, GJM

SITE CONTACT/PHONE Brause LaRue (303) 966-5874

LAB/LOCATION Teledyne Industries/Westwood, NJ

C-O-C NUMBER WC-T0002

EG&G ROCKY FLATS PLANT
CHAIN OF CUSTODY

DATE/TIME	SAMPLE NUMBER	LOCATION	CONTAINER TYPE
10-24-90 1400	5W00449 WC		1gal poly
1418	"		120ml AG
1415	5W80059 WC		1gal poly
1418	"		120ml AG
1535	5W80058 WC		1gal poly
1540	"		120ml AG
1550	5W00445 WC		1gal poly
1555	"		120ml AG

RWC 10-27-90

RELINQUISHED BY	DATE/TIME	RECEIVED BY
<u>Brause LaRue</u>	10/24/90 1700	<u>Brause LaRue</u>
<u>Brause LaRue</u>	10/29/90 1300	<u>Edna Cunningham</u>

REMARKS

SHIPMENT METHOD Fed Ex

PROJECT # Y002-Y10

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	
VOA-CLP	BNA-CLP	PEST/PCB-CLP	TRIAZINES	OIL AND GREASE	METALS, CS, LI, SR, SN, MO	CN	TSS, TDS, CL, F, SO4, CO3, HCO3, SI, NO2	Tot Phos, NO3/NO2, NH4	0-Phos	H2S	TOC	GROSS A/B	PU239/240, Am241	U233/234, 235, 238	Sr89/90, Cs137, Ra226, 228	H3	RADIATION SCREEN

LABORATORY USE ONLY	Y / N
PKG REC'D/CUSTODY SEALS INTACT	Y
SAMPLE LABELS/COCs AGREE	Y
TEMPERATURE WITHIN SPECIFICATION	N/A
CORRECTED COPY ATTACHED	
OTHER PROBLEMS OR DISCREPANCIES	